# Environmental Management Briefing Packet For New Employees, Contractors, Contract Employees, and Tenants

Version 1.2P (February 2008)

# Prepared by:

The Michigan Army National Guard Environmental Division Office

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# New Employees, Contractors, Contract Employees, and Tenants

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#### Introduction

The Michigan Army National Guard (MIARNG) uses a systematic approach for identifying and managing environmental impacts that can result from our activities and operations. Our Environmental Management System (EMS) conforms to the ISO 14001:2004(E) standard, a widely-recognized international management standard that is being implemented **Army-wide** in all 54 states and territories. Our EMS is a proactive management approach that helps bring our environmental responsibilities and sustainable practices into alignment with our mission goals. Being proactive allows MIARNG to reduce operating costs, minimize training downtime, and sustain our training lands for today's and tomorrow's soldiers. Therefore, it is critical that each person working for or on the behalf of MIARNG (i.e., full-time and part-time military and civilian personnel, contractors, contract employees, and tenants) understand fundamental EMS principles, and that they maintain awareness about how their specific duties and job activities could potentially contribute to environmental impacts. This information packet serves as an initial orientation to the MIARNG EMS.

#### **Overview of MIARNG Environmental Policy**

The Adjutant General (TAG) of the MIARNG has written an Environmental Policy Statement (**Attachment 1**) to formally provide the MIARNG policy toward improving our environmental management responsibilities while achieving our mission goals. Simply stated, TAG's Environmental Policy states that we will commit to:

- 1. Improving our Environmental Management
- 2. Preventing Pollution
- 3. Complying with environmental regulations and proper procedures

These three commitments are needed to sustain the mission and ensure the availability of training lands now and in the future. The consequences of non-compliance with these commitments could be costly in terms of both environmental and mission impacts. Below are some examples of potential environmental and mission impacts:

<b>Examples of Environmental Impacts</b>	Examples of Mission Impacts
Air Pollution	Mission and Training Downtime due to
Water Pollution	environmental impacts
<ul> <li>Groundwater (drinking water)</li> </ul>	<ul> <li>Public/Community Concerns and</li> </ul>
Contamination	Perception
	Notice of Violation (NOV) & Fines

Examples of Environmental Impacts	Examples of Mission Impacts
Soil Contamination	Consent (court) Orders
<ul> <li>Landfill Space Consumption</li> </ul>	<ul> <li>Lawsuits</li> </ul>
Noise Pollution	<ul> <li>Degradation of Existing Training Lands</li> </ul>
<ul> <li>Loss &amp; Degradation of Natural Resources</li> </ul>	<ul> <li>Potential Loss of Future Training Lands</li> </ul>
(renewable & non-renewable)	Mission Constraints and Competition for
<ul> <li>Loss &amp; Degradation of Ecological (habit)</li> </ul>	Resources Caused by Encroachment of
Resources	Communities up to our Facilities' and
Human Health Issues	Training Lands' Fence-lines

Upon review of the above list, it becomes clear that environmental impacts and mission impacts are often related. **By adhering to TAG's Environmental Policy, we can minimize environmental impacts and support the mission too**. To do this, MIARNG leadership has elected to use EMS as the <u>management tool</u> to put this environmental policy into action. The following sections describe some of the basic concepts of this management tool.

#### **Significant Environmental Aspects & Impacts**

We all know that before we can fix a potential problem, we first need to identify where potential problems might exist. That is where significant environmental aspects & impacts come in (refer to "Definitions" section below). It is important that everyone understands the environmental aspects (causes) and impacts (effects) of their job activities and knows how to manage those activities in an environmentally responsible manner. By doing so, we can minimize both environmental and mission impacts.

To help everyone better understand this, the MIARNG has identified several environmental aspects related to its operation that could cause significant environmental (and mission) impacts. A list of the significant aspects with examples of activities and processes is provided as **Attachment 2**. These significant aspects are assessed annually by MIARNG. **If your job involves any of these significant aspects, you must attempt to minimize the impacts by**:

- Being properly trained to do your job in an environmentally responsible manner
- Being aware of and following specific operating procedures and knowing the consequences of not following proper procedures
- **Identifying non-conformance** (helping others who may not know better)
- Contributing your ideas for improvement

Some of these significant aspects are currently being ear-marked for improvement by MIARNG leadership in order to reduce environmental impacts. This is done by developing objectives with specific targets for these aspects (see "Definitions" below). The performance of executing each of these targets is closely tracked by MIARNG leadership to ensure objectives are being met. Objectives and Targets are developed annually to ensure continued environmental improvement. To learn more about which

aspects are currently targeted, contact the Environmental Division office (see contact information below).

#### What Can You Do to Help? Environmental Management Basics

Your participation in the EMS is critical in carrying out the MIARNG Environmental Policy. **Attachment 3** is a basic list of environmental management practices you can follow to help. It is not intended to replace formal training and procedures, but will provide you with some basic understanding of how to better manage our activities in a more environmentally responsible manner.

Also, please contact the MIARNG Environmental Division Office if you have a change in product, process, or service, or introduce a new product, process, or service, or if you have any questions or concerns relating to the MIARNG EMS.

#### **For Further Information**

#### **Points of Contact:**

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# **References:**

Please contact the Environmental Division Office at (517) 481-7630 for more information.

# **Training Resources**

Additional training resources for each of the significant environmental aspects are provided in  $\bf Annex~\bf A.$ 

#### **ACRONYMS**

ACUB Army Compatible Use Buffer

AR 200-1 Army Regulation 200-1 "Environmental Protection and

Enhancement" (see also PAM 200-1)

AR 200-2 Army Regulation 200-2 "Environmental Effects of

**Army Actions (see also PAM 200-2)** 

AT Annual Training

CFMO Construction & Facilities Management Office

EMS Environmental Management System

**EQCC** Environmental Quality Control Committee

ESAV Environmental Site Assistance Visit
GIS Geographic Information System

HMWM Hazardous Material & Waste Management (Plan)

ICP Integrated Contingency Plan

INRMP Integrated Natural Resources Management Plan

ITAM Integrated Training Area Management

JFHQ Joint Forces Head Quarters

LOG Logistics

MIARNG Michigan Army National Guard

MOGAS Motor Gasoline NOV Notice of Violation

PAM Pamphlet (Army Pamphlet, see also AR 200-1 & AR

200-2)

POL Petroleum, Oil, & Lubricant

POTO Plans, Operations & Training Office
PPE Personal Protective Equipment
SOP Standard Operating Procedure

TAG The Adjutant General

TRI Training Requirement Integration
UECO Unit Environmental Compliance Officer
USPFO United States Property & Fiscal Office

VOC Volatile Organic Compounds

#### **EMS DEFINITIONS**

**EMS** – Environmental Management System (sometimes written as "eMS" to emphasize the importance of it being a management system).

**ISO** 14001:2004(E) – An international, standard management procedure for managing and protecting the environment (ISO = Greek for "equal").

Aspects – Unwanted or unintentional consequences or byproducts of our organization's activities/processes, operations, products, and services. In other words, what we do could cause or create/generate. (Examples: lighting, heating and cooling causes electricity consumption; painting and parts cleaning causes air emissions and generates hazardous waste; refueling vehicles and equipment can cause a spill/release; etc.).

*Impacts* – Any change/effect to or on the environment as a result of our activities, operations, products, and services, in other words the environmental effects of what we do. (Examples: Air pollution; groundwater contamination; loss of habitat; etc.)

#### An Illustration of Aspects and Impacts:

What we Do → What it Could Cause → What are the Potential Effects/Impacts
Refueling Equipment → Release of Fuel → Soil and Groundwater Contamination, (\$\$\$)

*Environmental Objective* – An overall environmental goal that we want to achieve. (Example: Reduce energy consumption)

**Environmental Target** – A detailed action or performance requirement (plan of attack) we implement in order to achieve each objective. (Example: Install computer-controlled, digital thermostats in facilities to reduce energy consumption)



# Michigan Army National Guard Environmental Policy Statement

01 October 2007

The Michigan Army National Guard (MIARNG) is a dynamic organization comprised of men and women committed to defending and protecting the citizens of the state of Michigan and the American public, both domestically and abroad. Readiness is a top priority. Our ability to accomplish our mission is enhanced through sustainable actions including ensuring adequate personnel strength, training proficiency, equipment serviceability, and conservation of training lands and other environmental assets. These activities occur at Michigan Army National Guard facilities and training sites across the state.

The MIARNG is committed to environmental stewardship at these facilities and training areas. A sustainable training environment is critical to our continued utilization of these resources. Through sound sustainability management practices, the MIARNG is committed to:

- o Maximizing the availability of training areas and facilities to enable soldier training and readiness, today and into the future.
- Continually improving the performance of our environmental, energy, and fuel management practices to sustain our natural resources and advance our nation's energy security.
- o Preventing pollution of our training lands, water, and air to ensure continued utilization of these resources.
- o Maintaining compliance with all applicable federal, state, and local environmental regulations, and other requirements to which we subscribe that relate to our environmental aspects.
- O Identifying and reviewing environmental aspects, impacts, and requirements early in our force management and planning processes to minimize unforeseen delays and obstacles to mission and unit readiness.
- o Establishing and reviewing environmental Objectives and Targets on a regular basis for continual environmental improvement and mission benefits.

Adherence to these commitments, and the ISO 14001 Environmental Management System (EMS) standard, is vital to MIARNG readiness and mission accomplishment. This policy will be communicated to all personnel working for or on the behalf of MIARNG, and be made available to the public.

Thomas G. Cutler Maj. Gen, MIANG The Adjutant General

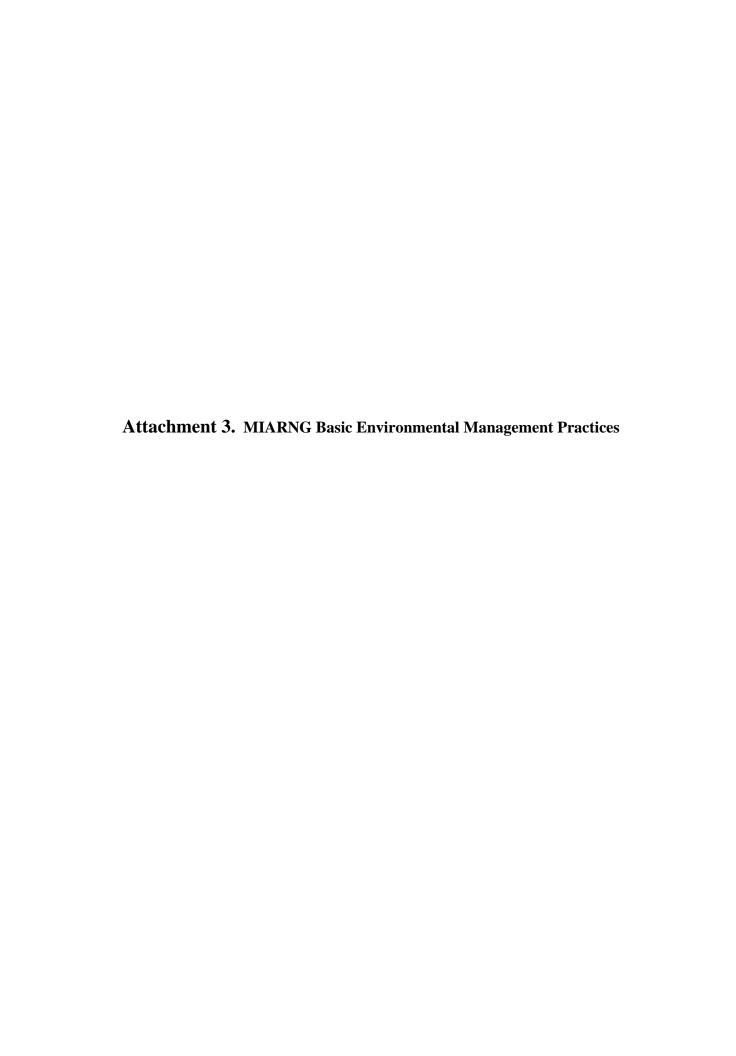


Significant	Examples of Activities &	Examples of
Environmental Aspect	Processes	Potential
		Impacts
Use of Virgin Solvents	<ul><li>Painting</li><li>Parts cleaning</li></ul>	Reduction of natural resources     Mission constraints
Generation of Hazardous Waste	<ul> <li>Painting</li> <li>Parts cleaning</li> <li>Shop rags for cleaning, degreasing</li> <li>Equipment Decontamination</li> <li>Electronics disposal</li> <li>Water purification</li> <li>Range berm maintenance</li> <li>Propellant burning</li> </ul>	<ul> <li>Air pollution</li> <li>Water pollution</li> <li>Soil &amp; groundwater contamination</li> <li>Landfill space consumption</li> <li>Reduction of natural resources</li> <li>Human health issues</li> <li>Mission constraints</li> <li>Public perception</li> </ul>
Air Emissions of VOCs and Particulates	<ul> <li>Painting</li> <li>Parts cleaning</li> <li>Burning, combustion</li> <li>Fugitive dust from construction activities</li> </ul>	Air pollution     Human health     issues     Mission     constraints     Fines     Public     concerns
Generation of Solid Waste	<ul> <li>Demolition</li> <li>Disposal of waste paper, bottles, cans, etc.</li> <li>Used tire disposal</li> </ul>	Air pollution     Landfill space consumption     Water pollution     Soil & groundwater contamination     Reduction of natural resources     Human health issues     Mission constraints     Public
Release of Fuels	<ul> <li>Leaky equipment, storage containers, &amp; tanks</li> <li>Overfills from refueling</li> <li>Vehicle &amp; equipment repairs</li> </ul>	perception     Air pollution     Water     pollution     Soil &     groundwater     contamination     Landfill space     consumption

Significant Environmental Aspect	Examples of Activities & Processes	Examples of Potential Impacts
		Reduction of natural resources     Human health issues     Mission constraints     Fines     Public perception
Use of POL	Vehicle servicing	<ul> <li>Reduction of natural resources</li> </ul>
Release of POL	<ul> <li>Leaky equipment, storage containers, &amp; tanks</li> <li>Overfills</li> <li>Vehicle &amp; Equipment Repairs</li> </ul>	Air pollution     Water     pollution     Soil &         groundwater         contamination     Landfill space         consumption     Reduction of     natural     resources     Human health     issues     Mission     constraints     Fines     Public     perception
Consumption of Electricity	<ul> <li>Heating</li> <li>Cooling</li> <li>Equipment operation</li> <li>Lighting</li> </ul>	Air pollution     Reduction of natural resources     Human health issues     Mission constraints
Consumption of Water	<ul> <li>Vehicle/equipment washing</li> <li>Boilers</li> <li>Wash basins</li> <li>Showers</li> <li>Toilets</li> </ul>	Reduction of natural resources     Mission constraints
Storage of Fuel (bulk & mobile)	<ul> <li>Procuring</li> <li>Storing</li> <li>Transporting</li> <li>Refueling</li> </ul> • Timber harvesting	Air pollution     Soil & groundwater contamination     Human health issues     Fines     Public perception     Mission constraints     Air pollution
Clearing Land and Cutting		Noise

Significant	Examples of Activities &	Examples of
Environmental Aspect	Processes	Potential
		Impacts
Trees	• Construction	Reduction of natural resources     Public perception
Generating Soil Erosion	<ul><li>Timber harvesting</li><li>Construction</li></ul>	Reduction of natural resources     Loss of training lands     Public perception     Fines
Reduction of Habitat, (encroachment/urbanization)	<ul><li>Real Estate Development</li><li>Clearing/developing land</li></ul>	<ul> <li>Reduction of natural resources</li> <li>Loss of training lands</li> </ul>
Physical Alterations from vehicles/equipment	<ul> <li>Vehicle usage</li> <li>Range &amp; training operations</li> <li>Track vehicle usage</li> </ul>	Reduction of natural resources     Noise     Loss of training lands
Generation of Noise	<ul> <li>Range &amp; training operations</li> <li>Helicopter operations</li> </ul>	Noise     Reduction of natural resources     Human health issues     Public perception     Mission constraints
Release of Metals to Soil	<ul> <li>Propellant burning</li> <li>Spent lead in range berms</li> </ul>	Soil & groundwater contamination     Reduction of natural resources     Human health issues     Fines     Mission constraints
Physical Alterations from Engineering Operations	<ul> <li>Land Clearing &amp; Excavations for Roads, Ranges, Buildings, etc.</li> </ul>	Reduction of natural resources     Loss of training lands
Generation of Universal Waste	<ul> <li>Discarding spent batteries</li> <li>Discarding spent fluorescent bulbs &amp; ballasts</li> <li>Discarding spent mercury switches</li> </ul>	Air pollution     Water     pollution     Soil &     groundwater     contamination     Reduction of     natural

Significant Environmental Aspect	Examples of Activities & Processes	Examples of Potential Impacts
		resources  Human health issues  Landfill space consumption  Fines  Mission constraints
Storage of Hazardous Material	Procuring & Storing MOGAS, JP-4, JP-8, diesel fuel, etc.	Air pollution     Soil & groundwater contamination     Human health issues     Mission constraints     Public perception     Fines
Consumption of fuel	<ul><li>Transportation</li><li>Shipping</li><li>Receiving</li></ul>	Reduction of natural resources     Mission constraints



Significant	Examples of Activities	Basic Environmental
Environmental Aspect	& Processes	Management Practices
Use of Virgin Solvents	<ul> <li>Painting</li> <li>Parts cleaning</li> </ul>	<ul> <li>Use only the amount necessary</li> <li>Limit purchases to only what you need</li> <li>Consider purchasing the least hazardous product possible</li> <li>Consider using less harmful parts washing techniques</li> <li>Use personal protective equipment (PPE)</li> <li>Use in well ventilated area</li> <li>Keep containers &amp; lids closed when not in use</li> <li>Dispose of waste properly</li> <li>Follow manufacturer's and other specific procedures</li> </ul>
Generation of Hazardous Waste	<ul> <li>Painting</li> <li>Parts cleaning</li> <li>Shop rags for cleaning, degreasing</li> <li>Equipment Decontamination</li> <li>Electronics disposal</li> <li>Water purification</li> <li>Range berm maintenance</li> <li>Propellant burning</li> </ul>	<ul> <li>Use only the amount necessary</li> <li>Limit purchases to only what you need</li> <li>Consider purchasing the least hazardous product/equipment possible</li> <li>Use laundry contract for shop rags</li> <li>Follow proper procedures for containerizing, labeling, and turning-in hazardous waste for disposal</li> <li>Follow specific SOPs</li> </ul>
Air Emissions of VOCs and Particulates	<ul> <li>Painting</li> <li>Parts cleaning</li> <li>Burning, combustion</li> <li>Fugitive dust from</li> </ul>	Be aware of and follow permit requirements     Use personal

Significant	Examples of Activities	Basic Environmental
Environmental Aspect	& Processes  construction activities	protective equipment (PPE)  Use in well ventilated area  Keep containers & lids closed when not in use  Dispose of waste properly Follow proper procedures for dust control  No open burning allowed without a permit Use more efficient
Generation of Solid Waste	<ul> <li>Demolition</li> <li>Disposal of waste paper, bottles, cans, etc.</li> </ul>	equipment  Recycle waste Limit purchases to only what you need Follow specific
Release of Fuels	<ul> <li>Used tire disposal</li> <li>Leaks</li> <li>Overfills</li> <li>Vehicle &amp; Equipment Repairs</li> </ul>	SOPs  Be aware of and follow facility specific Integrated Contingency Plan (ICP) procedures  Report spills and releases promptly to facility manager, commander, and environmental office  Have spill response equipment on hand  Know spill response procedures  Be properly trained on fuel management
Use of POL	Vehicle Servicing	<ul> <li>Inspect POL storage areas routinely for leaks, damaged containers, open lids/bungs, proper labeling, etc.</li> <li>Use secondary containment</li> <li>Follow proper storage and</li> </ul>

Significant	Examples of Activities	Basic Environmental
Environmental Aspect	& Processes	Management Practices
		handling procedures Follow proper procedures for handling used POL
Release of POL	<ul> <li>Leaks</li> <li>Overfills</li> <li>Vehicle &amp; Equipment Repairs</li> </ul>	Be aware of and follow facility specific Integrated Contingency Plan (ICP) procedures     Report spills and releases promptly to facility manager, commander, and environmental office     Have spill response equipment on hand     Know spill response procedures
Use of Electricity	<ul> <li>Heating</li> <li>Cooling</li> <li>Equipment operation</li> <li>Lighting</li> </ul>	<ul> <li>Purchase energy efficient products &amp; equipment</li> <li>Turn off equipment and lights when not in use</li> <li>Use thermostat settings that will save energy (lower heating, higher cooling)</li> </ul>
Water Consumption	<ul> <li>Vehicle/equipment washing</li> <li>Boilers</li> <li>Wash basins</li> <li>Showers</li> <li>Toilets</li> </ul>	<ul> <li>Purchase water saving showers and toilets</li> <li>Fix leaky faucets</li> <li>Don't let water run unnecessarily</li> </ul>
Storage of Fuel (bulk, mobile, & retail)	<ul> <li>Procuring</li> <li>Storing</li> <li>Transporting</li> <li>Refueling</li> </ul>	<ul> <li>Be properly trained on fuel management</li> <li>Use secondary containment</li> <li>Follow proper storage and handling procedures</li> <li>Report spills and releases promptly to facility manager, commander, and environmental office</li> <li>Have spill response</li> </ul>

Significant Environmental Aspect	Examples of Activities & Processes	Basic Environmental Management Practices
Environmental Aspect	W 1 1005353	equipment on hand  Know spill response procedures  Follow facility specific Integrated Contingency Plan (ICP) procedures  Follow ARNG Oil Spill Prevention and Contingency Plan for Fuel Trucks  Receive Hazardous Materials Transportation Training  Receive USPFO Employee Training  Attend AT Environmental
Clearing Land and Cutting Trees	<ul><li>Timber harvesting</li><li>Construction</li></ul>	Briefings     Follow proper INRMP procedures     Get briefed by the environmental office
Generating Soil Erosion	<ul><li>Timber harvesting</li><li>Construction</li></ul>	Follow proper INRMP procedures     Get briefed by the environmental office
Reduction of Habitat, (encroachment/urbanization)	<ul> <li>Real Estate         Development</li> <li>Clearing/developing         land</li> </ul>	Learn more about programs and agreements such as the Army Compatible Use Buffer (ACUB) and how they benefit both the environment and the mission
Physical Alterations from vehicles/equipment	<ul> <li>Vehicle usage</li> <li>Range &amp; training operations</li> <li>Track vehicle usage</li> </ul>	<ul> <li>Attend AT         Environmental         Briefings</li> <li>Review the         Environmental         Annex T of the AT         Operations Order</li> <li>Obey all postings         and signs</li> <li>Follow Range         Control procedures</li> </ul>

Significant	Examples of Activities	Basic Environmental
<b>Environmental Aspect</b>	& Processes	Management Practices
		Be familiar with the Training Requirement Integration (TRI)     Learn how to obtain aerial photo help from GIS personnel     Follow ITAM procedures     Follow INRMP procedures
Generation of Noise	<ul> <li>Range &amp; training operations</li> <li>Helicopter operations</li> </ul>	Follow procedures in the Installation     Operational Noise Management Plan     Follow POTO     Directed Flight Patterns
Release of Metals to Soil	<ul> <li>Propellant burning</li> <li>Spent lead in range berms</li> </ul>	<ul> <li>Follow procedures as Directed by Range Control</li> <li>Consult with the environmental office prior to burning excess propellants</li> <li>Attend environmental and Range Control briefings</li> </ul>
Physical Alterations from Engineering Operations	Land Clearing &     Excavations for     Roads, Ranges,     Buildings, etc.	Follow AR 200-2     policy and     procedures     Consult with the     Construction and     Facilities     Management Office     Follow INRMP     procedures
Generation of Universal Waste	<ul> <li>Spent batteries</li> <li>Spent fluorescent bulbs &amp; ballasts</li> <li>Spent mercury switches</li> </ul>	<ul> <li>Don't throw spent batteries, fluorescent bulbs, etc. in the dumpster</li> <li>Place spent products in a proper container and follow proper labeling and turn-in procedures for "Universal</li> </ul>

Significant	Examples of Activities	Basic Environmental
Environmental Aspect	& Processes	Management Practices
		Waste" in the MIARNG Hazardous Material & Waste Management Plan (HMWM SOP)  Request an Environmental Site Assistance Visit from the environmental office Receive Hazardous Waste Generator Training Annually  Attend UECO Training  Attend New Supply Sergeant Training
Storage of Hazardous Material	Procuring & Storing MOGAS, JP-4, JP-8, diesel fuel, etc.	Be properly trained on fuel management Use secondary containment Follow proper storage and handling procedures Report spills and releases promptly to facility manager, commander, and environmental office Have spill response equipment on hand Know spill response procedures Follow facility specific Integrated Contingency Plan (ICP) procedures Follow ARNG Oil Spill Prevention and Contingency Plan for Fuel Trucks Receive Hazardous Materials Transportation Training Receive USPFO Employee Training Attend AT

Significant Environmental Aspect	Examples of Activities & Processes	Basic Environmental Management Practices
	5.1.000000	Environmental Briefings
Consumption of fuel	<ul> <li>Transportation</li> <li>Shipping</li> <li>Receiving</li> </ul>	Consider using alternative fuels where practicable Keep vehicles & equipment well maintained for fuel efficiency Attend USPFO Employee Training Follow Fuel Management Plan if available Follow the POTO Fuel Allotment for required hours flown



#### Annex A. MIARNG List of Significant Environmental Aspects and Training Resources

Significant Environmental Aspect and Examples of Activities & Processes	Training Resources
Use of Virgin Solvents	<ul> <li>On the job training</li> <li>MIARNG PAM 200-1</li> <li>Hazardous Materials &amp; Waste Management (HMWM) SOP</li> <li>Environmental Site Assistance Visits (ESAVs)</li> <li>HazCom training</li> <li>New Supply Sergeant training</li> <li>UECO training</li> </ul>
Generation of Hazardous Waste	<ul> <li>On the job training</li> <li>MIARNG PAM 200-1</li> <li>HMWM SOP</li> <li>ESAVs</li> <li>Hazardous Waste Generator Training</li> <li>UECO Training</li> <li>New Supply Sergeant Training</li> <li>As directed by Range Control</li> </ul>
Air Emissions of VOCs and Particulates	<ul> <li>On the job training briefings</li> <li>Other as required by permit</li> <li>On the job training</li> <li>HMWM SOP</li> <li>ESAVs</li> <li>Hazardous Waste Generator Training</li> </ul>
Used tire disposal  Release of Fuels     Leaks     Overfills     Vehicle & Equipment Repairs	<ul> <li>UECO Training</li> <li>On the job training</li> <li>ARNG Oil Spill Prevention and Contingency Plan for Fuel Trucks</li> <li>MIARNG PAM 200-1</li> <li>Integrated Contingency Plan (ICP)</li> <li>AT Environmental Briefings</li> <li>JFHQ Environmental Briefings</li> <li>UECO Training</li> <li>ESAVs</li> </ul>
Use of POL  • Vehicle Servicing	<ul><li>On the job training</li><li>MIARNG PAM 200-1</li></ul>

#### Annex A. MIARNG List of Significant Environmental Aspects and Training Resources

Significant Environmental Aspect and Examples of Activities & Processes	Training Resources
Release of POL      Leaks     Overfills     Vehicle & Equipment Repairs	<ul> <li>ICP</li> <li>MIARNG PAM 200-1</li> <li>AT Environmental Briefings</li> <li>JFHQ Environmental Briefings</li> <li>UECO and Supply Sergeant Training</li> <li>ESAVs</li> </ul>
Use of Electricity	<ul> <li>On the job training</li> <li>State Maintenance Worker and Armory Manager Conferences</li> <li>CFMO Armory Visits</li> </ul>
Use of Water	<ul> <li>On the job training</li> <li>State Maintenance Worker and Armory Manager Conferences</li> <li>CFMO Armory Visits</li> </ul>
Storage of Fuel (bulk & mobile)  • Procuring  • Storing  • Transporting  • Refueling	<ul> <li>ARNG Oil Spill Prevention and Contingency Plan for Fuel Trucks</li> <li>Integrated Contingency Plan (ICP)</li> <li>MIARNG PAM 200-1</li> <li>MIARNG Fuel Management Plan</li> <li>AT Environmental Briefings</li> <li>JFHQ Environmental Briefings</li> <li>UECO Training</li> <li>ESAVs</li> <li>On the job training</li> </ul>
Clearing Land and Cutting Trees	• INRMP
Generating Soil Erosion	• INRMP
Real estate development     clearing/developing land	<ul> <li>Awareness of programs and agreements such as ACUBs</li> </ul>
Physical Alterations from vehicles/equipment • Vehicle usage • Range & training operations • Track vehicle usage	<ul> <li>Environmental Awareness Training</li> <li>AT Environmental Briefings</li> <li>Training Requirement Integration (TRI)</li> <li>GIS</li> <li>ITAM</li> <li>INRMP</li> </ul>

#### Annex A. MIARNG List of Significant Environmental Aspects and Training Resources

Significant Environmental Aspect and Examples of Activities & Processes	Training Resources
Generation of Noise	<ul> <li>Installation Operational Noise</li> <li>Management Plan</li> <li>POTO Directed Flight Patterns</li> </ul>
Release of Metals to Soil	As Directed by Range Control     AR 200-2
roads, ranges, buildings, etc.  Generation of Universal Waste  Spent batteries  Spent fluorescent bulbs & ballasts  Spent mercury switches	<ul> <li>INRMP</li> <li>On the job training</li> <li>HMWM SOP</li> <li>ESAVs</li> <li>Hazardous Waste Generator Training</li> <li>UECO Training</li> <li>New Supply Sergeant Training</li> </ul>
Storage of Hazardous Material • Procuring & Storing MOGAS, JP-4, JP-8, diesel fuel, etc.	<ul> <li>On the job training</li> <li>ARNG Oil Spill Prevention and Contingency Plan for Fuel Trucks</li> <li>Hazardous Materials Transportation Training</li> <li>USPFO Employee Training</li> <li>Integrated Contingency Plan (ICP)</li> <li>MIARNG PAM 200-1</li> <li>MIARNG Fuel Management Plan</li> <li>AT Environmental Briefings</li> <li>JFHQ Environmental Briefings</li> <li>UECO Training</li> <li>ESAVs</li> </ul>
Consumption of fuel	<ul> <li>On the job training</li> <li>Hazardous Materials Transportation         Training</li> <li>USPFO Employee Training</li> <li>MIARNG Fuel Management Plan</li> <li>POTO Fuel Allotment for required hours         flown</li> </ul>